| <br>Index of Claims |          |           |          |          |           |              |                |              |         |          |            |            | Application No. |              |              |            |                     |              |        |        |       | Applicant(s) |                                         |          |                |                 |             |          |           |  |
|---------------------|----------|-----------|----------|----------|-----------|--------------|----------------|--------------|---------|----------|------------|------------|-----------------|--------------|--------------|------------|---------------------|--------------|--------|--------|-------|--------------|-----------------------------------------|----------|----------------|-----------------|-------------|----------|-----------|--|
|                     |          |           |          |          |           |              |                |              |         |          |            |            | 10/630,486      |              |              |            |                     |              |        |        |       |              | KIM ET AL.                              |          |                |                 |             |          |           |  |
|                     |          |           |          |          |           |              |                |              |         |          |            |            |                 | Examiner     |              |            |                     |              |        |        |       |              |                                         | Art Unit |                |                 |             |          |           |  |
|                     |          |           |          |          |           |              |                |              |         |          |            |            |                 |              |              |            |                     |              |        |        |       |              |                                         |          |                |                 |             |          |           |  |
| <br>Pr              |          |           |          |          |           |              |                |              |         |          |            |            |                 | Phat X. Cao  |              |            |                     |              |        |        |       |              |                                         | 14       |                |                 |             |          |           |  |
|                     |          |           |          |          |           | _            |                | _            | _       |          |            |            |                 |              |              |            |                     |              |        |        |       |              |                                         |          |                |                 |             | _        |           |  |
| √ Rejected          |          |           |          |          |           |              | -              | (Through num |         |          |            |            | ral)            |              |              | N          | No                  | n-E          | lect   | cted   |       | A            | Appe                                    |          | pea            | ı               |             |          |           |  |
|                     |          | $\dashv$  | +        |          |           | _            |                | -            | +       |          |            | Caricelled |                 |              |              | <b>∤ ∤</b> | -                   |              |        |        |       |              | $\square$                               |          |                |                 | 4           |          |           |  |
| = Allowed           |          |           |          |          |           |              |                | +            | .       |          | Restricted |            |                 |              |              |            | ı                   | Interference |        |        | се    |              | o                                       | Objected |                |                 |             |          |           |  |
|                     |          |           |          |          |           |              |                | L            |         |          |            |            |                 |              |              |            |                     |              |        |        |       |              | L_I                                     |          |                |                 |             |          |           |  |
| Claim               |          |           | Date     |          |           |              |                |              |         | 7::::    | Claim      |            |                 |              | Date         |            |                     |              |        |        | Clai  |              |                                         |          | Date           |                 |             |          |           |  |
| _                   | al       | 4         |          |          |           |              |                | Τ            | Т       |          | _          | a          |                 |              |              |            |                     |              |        |        | _     | a            |                                         |          |                |                 |             |          |           |  |
| Final               | Original | 3/16/04   |          |          |           |              | -              |              |         |          | Final      | Original   |                 |              |              |            |                     |              |        |        | Final | Original     |                                         |          |                |                 |             |          |           |  |
| _                   | Ō        | 3         |          |          |           |              |                |              |         |          |            | I. I       |                 |              |              |            |                     |              |        |        |       |              |                                         |          |                |                 |             |          | Ш         |  |
|                     | 1        | ÷         | $\prod$  | $\dashv$ | $\Box$    | 1            | 7              | 1            | 4       | ]        |            | 51         |                 | $\bot$       | 1            |            | $\dashv$            |              | 1      |        |       | 101          |                                         |          | -              |                 |             | $\perp$  | $\vdash$  |  |
|                     | 3        | ÷         | +        | $\dashv$ | +         |              | -              | ┿            | +-      | -        |            | 52<br>53   | $\dashv$        | +            | ╁╌           | $\vdash$   | -                   | ╬            | +-     | 1      |       | 102<br>103   |                                         | $\dashv$ | ╁              | $\vdash$        | $\dashv$    | -        | $\vdash$  |  |
|                     | 4        | ÷         |          |          |           |              |                |              |         |          |            | 54         |                 |              |              |            |                     |              |        |        |       | 104          |                                         |          |                |                 |             |          |           |  |
|                     | 5        | ÷         | 4        | 4        | -         | -            |                | +            |         | -        |            | 55<br>56   |                 | +            | 4            |            | -                   | -            | +      |        |       | 105<br>106   | -                                       |          | +              | Н               | +           | _        | +         |  |
|                     | 7        | +         | +        | $\dashv$ | +         | +            | +              | +            | +       | ╁        |            | 57         | +               | +            | <del> </del> | Н          | $\dashv$            | +            |        |        |       | 107          | H                                       | +        | +              | $\vdash$        | _           | +        | $\forall$ |  |
|                     | 8        | +         | $\Box$   |          |           |              | ightharpoons   | 1            | 上       | ]        |            | 58         |                 |              |              |            |                     |              |        |        |       | 108          |                                         |          |                | Ш               |             |          |           |  |
| <u> </u>            | 9<br>10  | +         | 4        | +        | -         | +            | +              | +            | ╬       | -        |            | 59<br>60   | +               | +            | +            | Н          | -                   | -            | _      |        |       | 109<br>110   | $\vdash$                                | +        | -              | $\vdash$        | $\dashv$    |          | $\vdash$  |  |
|                     | 11       | ÷         | -        | $\dashv$ | $\dashv$  | +            | +              | +            | ╁       | ┧        |            | 61         | $\dashv$        |              | +            | H          |                     | 十            | +      |        |       | 111          |                                         |          |                | $\Box$          | $\dashv$    | 士        |           |  |
|                     | 12       | ÷         |          |          |           | $\Box$       |                |              | $\bot$  | ]        |            | 62         | $\Box$          |              | $\bot$       |            |                     | _            |        |        |       | 112          |                                         |          | ļ              |                 | _           |          | L         |  |
|                     | 13<br>14 | ÷<br>+    | $\dashv$ | +        | -+        | $\dashv$     | +              | +            | +       | -        |            | 63<br>64   | +               | +            | +            | H          | $\dashv$            | -            | +      | 1      |       | 113<br>114   |                                         | +        | +-             | $\vdash$        | -           |          | +         |  |
|                     | 15       | ÷         |          |          | $\exists$ | $\top$       |                |              |         | ]        |            | 65         |                 | $\dagger$    |              |            |                     |              |        |        |       | 115          |                                         |          |                |                 |             |          |           |  |
|                     | 16       | +         | 4        | _        | $\dashv$  | _            |                | 1            | $\bot$  | 4        | <u> </u>   | 66<br>67   | -               | _            | +            |            | $\dashv$            | _            | +      | ł      |       | 116<br>117   |                                         | _        | +              | $\vdash$        |             | -        | $\sqcup$  |  |
|                     | 17<br>18 | ÷         | +        | +        | $\dashv$  | +            |                | +            | ╁       | -        | _          | 68         | +               | +            | +            |            | $\dashv$            |              | +      |        |       | 118          | H                                       | _        | +              | ╁═┪             | _           | $\dashv$ | $\forall$ |  |
|                     | 19       | ÷         | $\Box$   |          |           |              |                | 1            | $\perp$ | ]        |            | 69         | $\perp$         | $\downarrow$ |              |            |                     |              |        |        |       | 119          |                                         | _ _      | $\blacksquare$ |                 | $\Box$      | $\perp$  | $\Box$    |  |
|                     | 20<br>21 |           | -        | -        | +         | -            | +              | +            |         | -        |            | 70<br>71   | +               | +            | +            | $\vdash$   |                     | -            | ╁      | -      |       | 120<br>121   | Н                                       |          | +              | ┼┤              | +           |          | $\vdash$  |  |
|                     | 22       |           |          | $\Box$   |           |              |                | $\perp$      |         | ]        |            | 72         |                 |              | 上            |            |                     |              |        | ]      |       | 122          |                                         |          |                |                 |             |          |           |  |
|                     | 23       |           | _        | _        | _         |              | 4              | $\downarrow$ |         | ]        |            | 73         | -               | $\bot$       | -            |            |                     | +            | _      |        |       | 123<br>124   | Н                                       | _ _      | +              | $\vdash$        | $\dashv$    | +        | $\dashv$  |  |
|                     | 24<br>25 |           | -        | +        | $\dashv$  | -            | +              | +            | +       | -        |            | 74<br>75   | +               | +            | +-           | $\vdash$   |                     | +            | +      | 1      |       | 125          |                                         | +        | ╁              | $\vdash$        | +           | +        | H         |  |
|                     | 26       |           |          |          |           |              |                | I            |         | ]        |            | 76         |                 | 1            | 工            |            |                     |              |        |        |       | 126          |                                         |          |                |                 | $\Box$      |          | П         |  |
| -                   | 27<br>28 |           | -        | _        | $\dashv$  | -            |                | +            | +       | -        |            | 77<br>78   | -               | -            | -            | $\vdash$   | $\dashv$            |              | +-     | -      |       | 127<br>128   | $\vdash$                                | +        | +              | $\vdash$        | +           | +        | $\vdash$  |  |
|                     | 29       |           | $\dashv$ | +        | ┪         |              | +              | +            | +       | 1        | <u> </u>   | 79         |                 | +            | +-           | $\vdash$   | $\dashv$            | +            | ╁      | 1      |       | 129          | Н                                       | $\dashv$ | +              | 1 1             | $\dashv$    | +        | $\forall$ |  |
|                     | 30       |           |          |          |           |              |                |              |         |          |            | 80         | 工               | $\downarrow$ | $\bot$       |            | $\Box$              |              |        |        |       | 130          |                                         |          | Ţ              |                 |             |          |           |  |
|                     | 31       | H         | -        | _        | _         | +            | -              | +            | +       | -        | -          | 81<br>82   | +               | +            |              | $\vdash$   | $\dashv$            | +            | +-     | 1      |       | 131<br>132   | -                                       |          | ╁              | $\vdash$        | $\dashv$    | +        | Н         |  |
|                     | 33       |           | T        | 1        | _         | $\dashv$     | $\top$         | $\dagger$    | +       | <b>-</b> |            | 83         | 十               |              | 1            |            |                     |              | 1      | ]      |       | 133          |                                         | 士        |                |                 |             |          |           |  |
|                     | 34       |           | $\Box$   |          |           | $\Box$       | $\blacksquare$ | $\perp$      |         |          |            | 84         | $\Box$          | $\perp$      |              |            | Ц                   |              |        |        |       | 134          | $\Box$                                  | _        | _              | $\square$       |             |          | $\sqcup$  |  |
|                     | 35<br>36 | $\vdash$  | $\dashv$ | +        | +         | +            | +              | +            | +       | -        |            | 85<br>86   |                 | +            | ╁            | -          | -                   | +            | +      | 1      |       | 135<br>136   | Н                                       | -        | ╁              | +               | $\dashv$    | +-       | $\vdash$  |  |
|                     | 37       |           |          |          |           | 士            |                | 土            | 上       |          |            | 87         |                 |              |              |            |                     |              |        |        |       | 137          |                                         |          | 工              |                 |             |          |           |  |
|                     | 38       |           | _        | 4        | _         | $\perp$      | $\perp$        | $\bot$       | 4       | _        |            | 88<br>89   | _               | _            | 4_           | -          |                     |              | _      |        |       | 138<br>139   | $\vdash$                                |          |                | $\square$       | _           | -        | $\vdash$  |  |
|                     | 39<br>40 | Н         | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$     | +              | +            | +       | -        | -          | 90         | -               | +            | ╁╴           | $\vdash$   | $\dashv$            | $\dashv$     | ╁      | 1      |       | 140          | $\vdash$                                |          | +              | Н               | $\dashv$    | ╁        | $\vdash$  |  |
|                     | 41       |           | $\Box$   | 寸        | コ         | 耳            |                |              | 丰       |          |            | 91         |                 | $\perp$      | Ţ            |            |                     |              | 工      |        |       | 141          | П                                       | 丁        |                |                 | $\sqsupset$ |          | $\Box$    |  |
|                     | 42       | $\vdash$  | $\dashv$ | 4        | 4         | $\dashv$     |                | +            | +       | -        | _          | 92         | +               | +            | ╁            | -          | $\vdash \downarrow$ | +            | +      |        |       | 142<br>143   | Н                                       | +        | +              | H               | $\dashv$    | +        | $\vdash$  |  |
|                     | 44       | $\vdash$  | _        | _+       | _+        | _            | _ -            | +            | +       |          | _          | 94         | 士               | $\pm$        | 1            |            | $\exists$           | $\pm$        |        | 1      |       | 144          |                                         | 士        | 士              |                 | $\exists$   | $\perp$  | 口         |  |
|                     | 45       |           | $\Box$   | $\Box$   | 4         | ightharpoons | T              | 1            | T       | ]        |            | 95         | $\Box$          | Ţ            | T            |            |                     | $\dashv$     | $\top$ |        |       | 145          | $\Box$                                  | $\Box$   | $\perp$        | П               | 7           | T        | 口         |  |
|                     | 46<br>47 | $\vdash$  | $\dashv$ | +        | $\dashv$  | +            | +              | +            | +       | -        | -          | 96<br>97   |                 | +            | +            | $\vdash$   | $\dashv$            | +            | +-     | 1      |       | 146<br>147   | $\vdash$                                | +        | +-             | ╂╢              | +           | +-       | ╁┤        |  |
|                     | 48       |           | 士        | 士        | $\exists$ | 士            | 士              | 1            | 土       |          |            | 98         | 土               | 1            | 上            |            |                     | 士            | 士      |        |       | 148          |                                         | $\perp$  | 上              |                 |             |          | Ħ         |  |
|                     | 49<br>50 | $\square$ | _        | $\perp$  | _[        | $\downarrow$ | +              | 1            | +       | -        | <u> </u>   | 99<br>100  | -               | +            | +            | -          | dash                | -            | 1-     |        |       | 149<br>150   | $\vdash$                                | -        | +              | $oxed{\square}$ | -           | +        | $\vdash$  |  |
|                     | טט       |           |          |          |           | L            |                |              |         | _:::::   |            | 100        |                 |              |              | 1          | ш                   |              |        | ]::::: |       | 100          | لــــــــــــــــــــــــــــــــــــــ |          |                |                 |             |          | لسلا      |  |